

879 6 29.6 -43 41 -12.8(4) 65

46415

6-8842 6.67 +1.00 (2.03) 6872

-0043 ± 8.7 + 010 ± 8.0

34.183	1900.0	-0035	+021	51.53	18973
<u>215</u>				<u>-53</u>	
34.398				52.06	

-0049 +015

+4 ± 1
-0005 +016

49.105 47.91 1928.0

-0005 +016

-0049

-2.85

50.76

-80

34294

51.56

+15

+65

51.41

300

6.500
-43.700
-67.000
16.000
4.000
63
-12.800

-0.180
0.941
0.285
112.798
3.467

-0.430
0.185
-0.884
112.728
18.424

0.885
0.282
-0.371
-181.762
-6.718

18 18

SVLol

6 ^{29.8}
~~23.5~~ -36 57

+540 (2)
634 1111

2393

-0004 +065 stay
~~0003~~ +0657 6.5
-36.9

6.5

-0048
-003 +066

-4
+66
5
+54

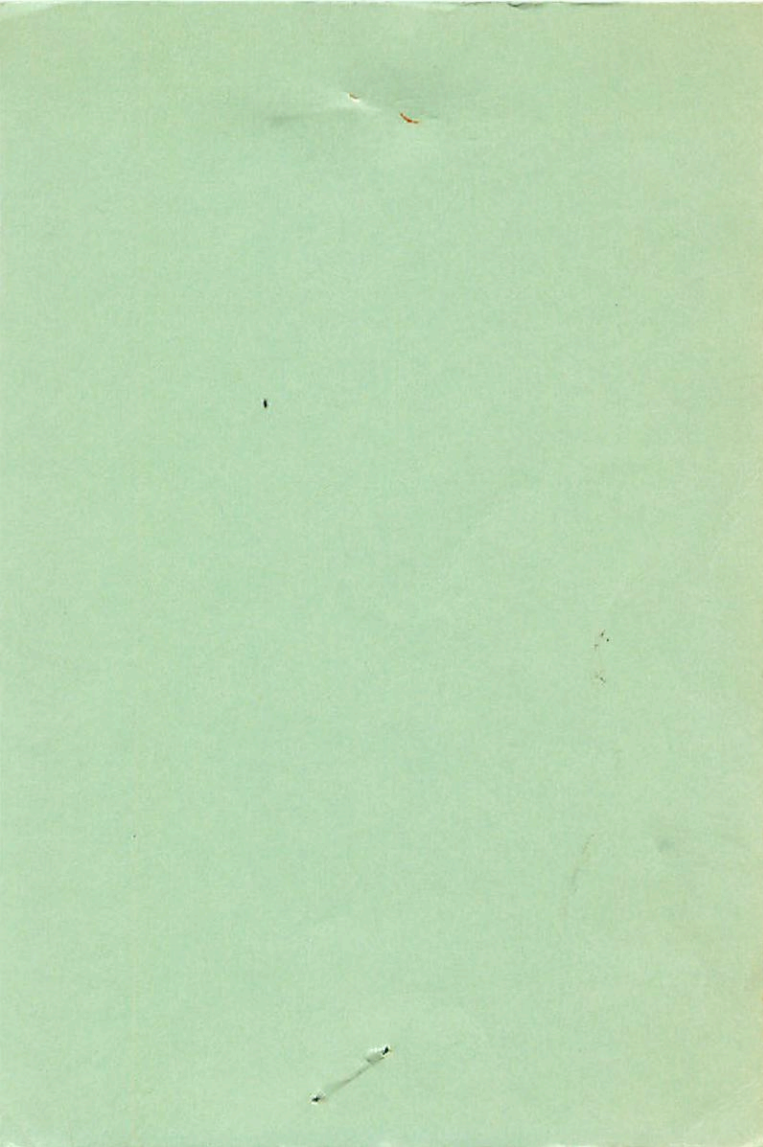
687 517
217 697

6000 510
999 -040

5 70 700
+0660 0004 5.0

6874 - 6378
7263 9443

0661
~~0005~~
+0.25
0100 bar



620
11.6
6.2

+11
34

46569 6 30.1 -51 47 d158

H02400

668509

240178

[M₂] 243 +3

[C₂] 392 +82

+3.05

2.55

5.59 + 54 (+04) 6

445 2.62

445 2.62

361 153

8.20 + 12.3 = 15.6 + 5.3

+358 - 198 + 571

6.976 13.26

495

450

2.629

535 - 1544

59692
102

250 + 40
+40
+0950
+107
+0976

+1077

+1107

11029
16
100

46601
1017 + 0598
1017 + 0598

8.7.5.14

2403.000*

5.000*

33.100*

-51.000*

-47.000*

3.107*

3.098*

2.550*

32.359

15.700

3.360

3.150

14.000

-3.190

-3.901

-23.308

3.554

-3.407

11.550

19

19

42855
 628505
 W4199
 71487
 +86074

6 30.2 +86 44 8.68 +25.78

$\frac{724.80(5)}{+26.8w(13)}$
 w(10.6)

6.60 +1.20 +1.20 N314 R

+0185
 +0157 ±1.5 -106 ±1.4

PROG SUM

+022 -105 ac
 +016 -106 N30
 +018 -106

+92 -44 +20 .005
 +80 -34 +20 .006
 +80 -26 +17 .007
 +62 -21 +17 .008

$\frac{-003}{-003} \frac{\$106}{\$106}$

-53
 +106
 6.5
 +28.7

R.A. : 6.500
DEC. : 86.750
R.A. : -53.000
DEC. : -106.000
R.A. : 6.500
DEC. : 200
R.A. : 25.700

1 (U) : -0.180
2 (U) : -0.828
3 (U) : 0.531
dU : 418.467
U : 97.150

1 (V) : -0.430
2 (V) : 0.552
3 (V) : 0.714
dV : -271.323
V : -35.775

1 (W) : 0.885
2 (W) : 0.099
3 (W) : 0.455
dW : -62.592
W : -0.788

20

20

-58.75

6 30.4 - 58.58

7.8

7.8

446647

+10.4 Behind

+036 +050 Cap

+056

~~+040 +056~~
+056

65

59

1507-5607

87

58

6.0

+10.4

21

11 : 1.7.848
p3 (U) : 232.813
p2 (U) : 0.827
p1 (U) : 0.283
-0.188
RAD. VEL. :
MODULUS : 10.400
DISTANCE : 158
PM. DEC. : 6.000
PM. R.A. : 58.000
DEC. : 37.000
R.A. : -52.000
6.500

R.A. :	6.500
DEC. :	-59.000
PM. R.A. :	87.000
PM. DEC. :	58.000
DISTANCE :	6.000
MODULUS :	158
RAD. VEL. :	10.400
q1 (U) :	-0.180
q2 (U) :	0.983
q3 (U) :	0.027
q4 (U) :	232.013
q5 (U) :	7.049

+72°322

45821 6 30.6 +72 04 7.8 dG- +41.36

C809

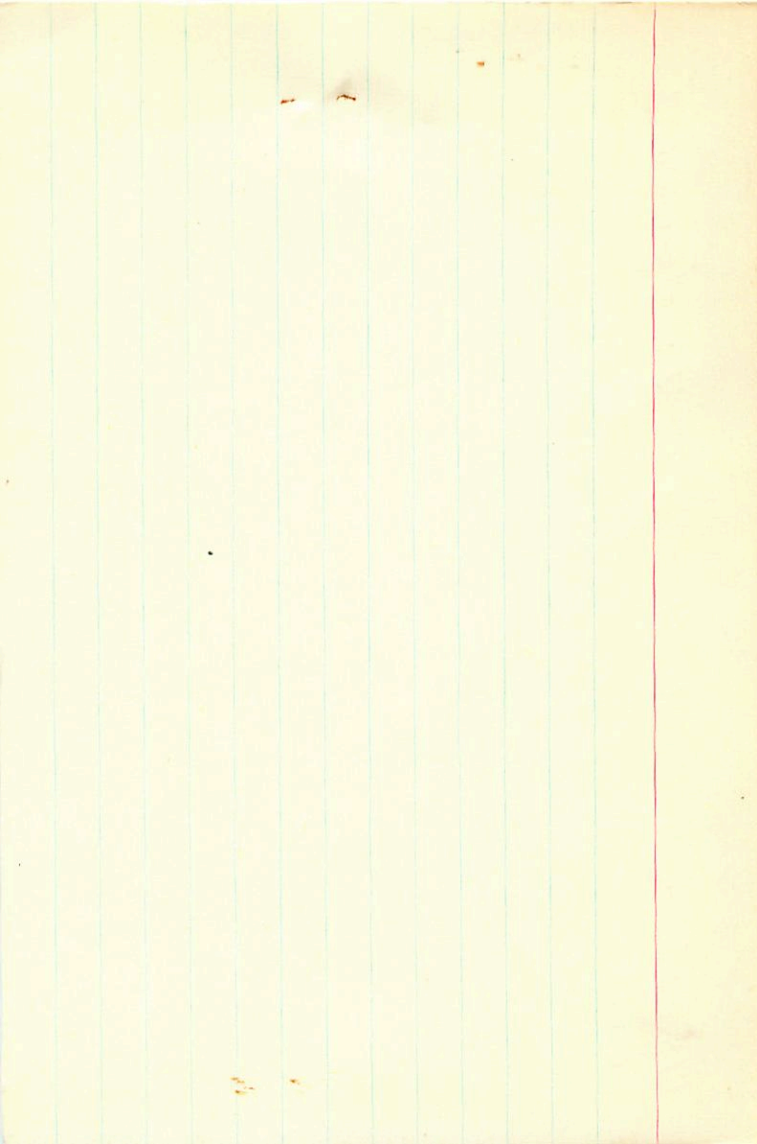
4211

17.76 424 225 326 1

-029 -234 GP

17.76

11



881 6 30.9 -45 14 10.14 -6.2 (4) 65

46652

7.16 +1.08 (2.10)

668521

$$\begin{array}{r}
 +0025 \pm 4.4 \\
 1502 \pm 0.15 \\
 \hline
 17.68 \quad 1500.2
 \end{array}$$

$$\begin{array}{r}
 52.645 \\
 -118 \\
 \hline
 52.7 \\
 \hline
 9.150 \\
 43.408 \\
 \hline
 5.54 \\
 \hline
 5.27
 \end{array}$$

$$\begin{array}{r}
 +0020 -035 \\
 +4 \\
 \hline
 +0024 -034 \\
 \hline
 15.89 \\
 \hline
 +1.749
 \end{array}$$

$$\begin{array}{r}
 10.26 \quad 1926.58 \\
 -5.75 \\
 \hline
 16.01 \\
 \hline
 16.78 \\
 \hline
 16.79
 \end{array}$$

$$\begin{array}{r}
 +0020 \\
 \hline
 +0626
 \end{array}$$

$$\begin{array}{r}
 5.27 \\
 \hline
 +035
 \end{array}$$

$$\begin{array}{r}
 16.79 \\
 \hline
 16.90
 \end{array}$$

22

6.500
-45.300
36.000
-34.000
4.500
79
-6.200

-0.180
0.949
0.259
-174.579
-15.472

-0.430
0.161
-0.889
-77.472
-0.645

0.885
0.271
-0.379
62.451
7.309

22

46742 6 31.4 -43 32 $\cdot 112 \overline{111}$ $+27.0 \pm 0.9$ $c_3(5)$
 7.92 + 1.66 (2.50)

8.03 + 1.655 + 1.92 (3)

6.78 + 0.96 (2)

6.46

$\begin{array}{r} 6.46 \\ 5.11 \\ 1.35 \\ \hline 9.22 \end{array}$

6.58 89

$\begin{array}{r} 6.20 \\ 1.18 \\ 5.02 \\ 8.55 \\ \hline 6.87 \end{array}$

$\begin{array}{r} 6.40 \\ 1.24 \\ 5.14 \\ \hline 5.25 \end{array}$

+0011 +0006 Step 1970

+0012 +008

+0130

+017 +008

23



46742.000*

6.000*

31.400*

-43.000*

-32.000*

0.017*

0.008*

9.200*

885
589

691.831

27.000

0.021

0.287

49 Am
2358 46553 6
8557
4237

+0005 ± 2.2
+0001
32.1 + 2F 04

-019 E 1.7
-009
04

+17.06

5.05 -0.03 -0.85 85.5E

0T +007 -019 G

3.161 1599.2
-025
136

+25 3 47.25 1898.4

+001 -015
004 -017

98
48.26

47.95 1939.82

3.125
24
152

47.96

28.620
94458
108
3.108
10
2.998
19
13.037

44
+005

34.6

28.623
34488
111
3.111
108
3.103
129
3.104

1429.33

56.02
645
49.62
170
47.92
15
47.5

55.73

645
49.28
170
47.58
21
47.79

1927.77

4759
313
32

47.97
29

950 - 139 420 852 +004 - 0.17 + 17.0 -008 + 8 -021
-004 005 0 001 -024 035 +15.0 - 2 + 15 0.135

$$\begin{array}{r} -4 + 15 + 3 \\ \boxed{+17 - 8 + 1} \end{array}$$

-4 + 15 + 1

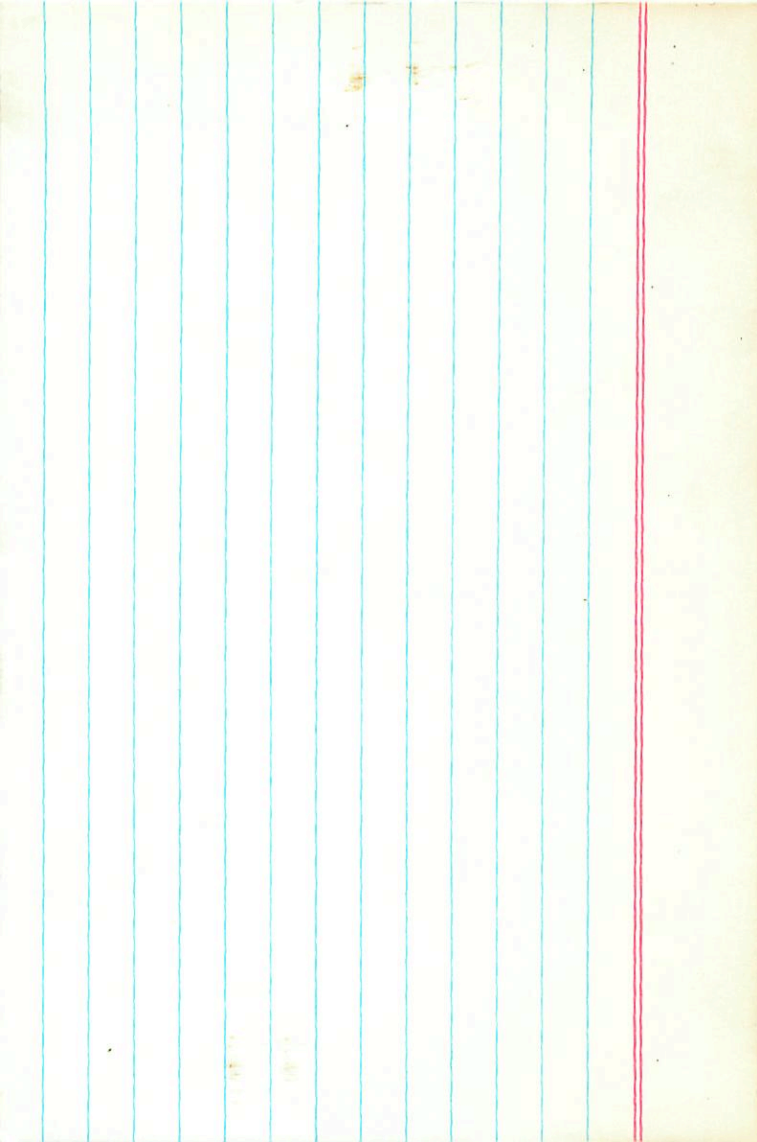
101

46858 6 32.2 -38 49 67.14 +1.246

FD882

8.14 + 0.92 (1.58)

+005-0036P →

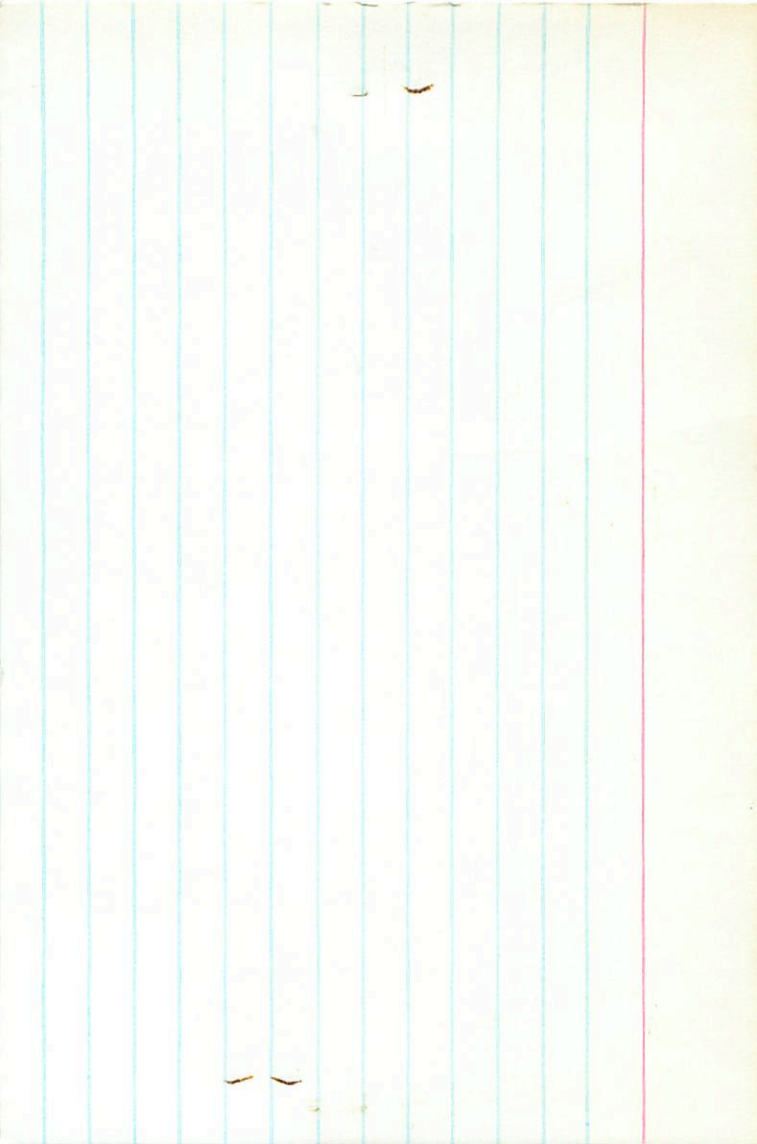


45947

G 31.6 + 73 44 F2

HR2365

G 68540



-0009 ± 83 +001 ± 6.9
-0006

46709 6 32.5 +10 02 6.1 9125 +38.66
4244 / +3885⑦

8567 32.193 1918.2 +10 1 46.62 1917.5

$\frac{29}{222}$
 $\frac{-2}{46.60}$

ARR-MU6

-013 +00160
 $\frac{-2}{-015} +20$
+003

32.179
 $\frac{33}{212}$

45.98
 $\frac{14}{46.12}$

1933.9 !

24



46709.000*

6.000*

32.500*

10.000*

2.000*

-0.015*

0.003*

6.500*

199.526

38.600

0.018

0.926

39.351

0.042

-0.378

-6.233

-0.056

0.017

-10.578

24

21 Aug 4 33.1 +38 29 $N_3(CS_4)$

8.3-10.0

$\rho = +1206$

$t = +13.8$ $+0.005 - 0.027$ N_{30} $235d$

$+14-27-2$ 6.55

$E(10-d) = +0.8$

$+0.007 - 0.026$ $N-M$

668581

R R-I

number

$+0.4-16-1$ 5.60

2438973.7 5.30 +2.59 -
 8774.7 5.30 +2.62 -
 8760.7 5.30 +2.62 -
 8791.7 5.24 +2.62 -
 8812.6 5.31 +2.52

3.70 +1.10
 3.69 +1.09
 3.68 +1.07
3.68 +1.12

N_3 3.4 $+1.0$
 11200
 2.1 30 67.5

2.6 41.0 5 4.5 2.7
 1.0 1.7 1.7 1.7 1.7
 1.0 1.7 1.7 1.7 1.7

497
 40

17 -25

+120

-46

-150 -152 921 / -0063 +0202 / +0139 +1000? +1.7 +11.7 +13.7
 -122 904 060 / +0141 -1149 / -1340 - -1.4 +0.7 -15.7
 695 410 236 / +0294 -0531 / -0237 -2.9 +2.0 0
 13

17

103
96

3.4 +101

3.4

3.2

1026

3 2 2
1.4 1.2

03
2.2
1.2
1.0

302

121

1.71

965

1.7
1.6
1.2
1.0

10

1.6
1.2
1.0

474
 472
 46
 5P3400
 33.1 +38 29 5.125 N +12.06

000028.4 -030 ± 2.4

0000 -030

46687
 4254

8581 6.670 19040 238 29 16.05 19063
 WNAW
 -9
 661
 47-1
 1.31
 17.26

-0045 +0194
 -0100 -1157
 +0210 -0512

+0150 } +1.8 +11.6
 -1257 } -15.8 +1.7
 -0302 } -3.8 +2.8

23.49
 43 1522
 416
 414
 6.6
 6.13

11.4
 13.4
 13.4

-190 -152 977
 -424 904 060
 885 400 236

0 3 +0216
 0 -1286
 0 -0507

+3.4
 -18.1
 -9.3

024
 +5
 -27

27.0 1924.9

842
 18.56

18.83
 17.3

+11.6 | 6.20
 +0.7

+2.8
 +2.2 +3.2
 +7.4 -25
 0 -30
 +4 -27

+2.8
 +2.8
 +2.8

+2.8
 +2.8
 +2.8

783

~~+1005~~ -028 BL +12.0

18

+1007

+12.8

6.55

+1005 -127 P104

+1004 -028

2.5

2.04m

-150 -152 971

-0063 +0202 +1039

+143

+11.6

-124 904 060

-0143 -1213

-185B -27.0

+0.7

885 400 236

+0294 -0531 -0237

-2.0

+2.8

3.82 +100

3.1

1.3

1.8

75

5.7

23 Jun
46781 6 33.1 +16 50 -031 ±2.0
+0014 ±2.8
+0009 -039

6.7 dF8 +30.66

4256

8583 8.416 1904.2 +16 50 21.40 1892.9

$$\begin{array}{r} -64 \\ \hline 1352 \end{array}$$

$$\begin{array}{r} 1.77 \\ \hline 2317 \end{array}$$

$$\begin{array}{r} 8.359 \\ 29 \\ \hline 388 \end{array}$$

$$\begin{array}{r} 21.14 \\ 20 \\ \hline 2136 \end{array}$$

112372

$$\begin{array}{r} 1172 \\ \hline 391 \\ \hline +039 \end{array}$$

1939.53

$$\begin{array}{r} 8.354 \\ 29 \\ \hline 1383 \end{array}$$

$$21.27$$

120

$$\begin{array}{r} 21.35 \\ \hline \end{array}$$

$$\begin{array}{r} 21.40 \\ \hline \end{array}$$

$$\begin{array}{r} -1.77 \\ \hline \end{array}$$

$$21.33$$

$$\begin{array}{r} 16 \\ \hline \end{array}$$

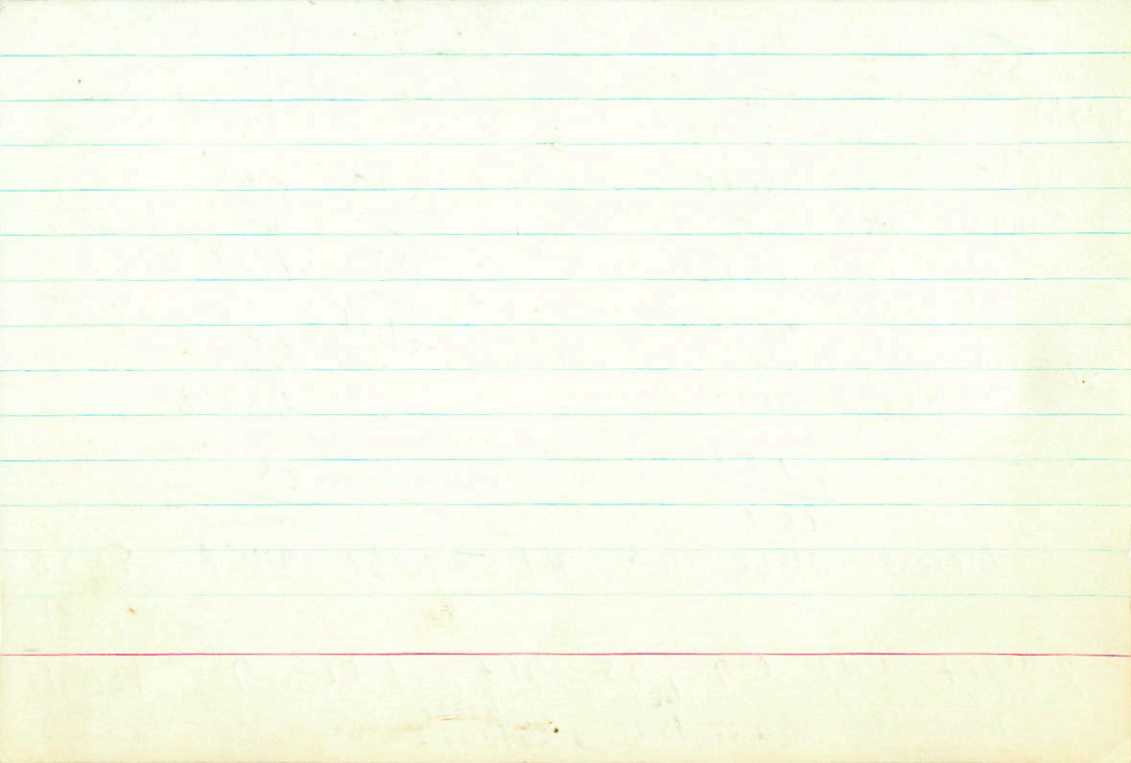
1940.09

45.0

$$\begin{array}{r} 8.371 \\ 30 \\ \hline 101 \end{array}$$

$$21.49$$

$$\begin{array}{r} 37.9 \\ \hline \end{array}$$



46703

6 33.8 + 53 20.6

+53.1040

@ 1 my second book.

Bomb A.I.

9.00 0.355 0.055 1.200

Carney B.

-106 204
Total

Mauer &

70:008-0003

1984

PASP

96

176

25

9.07, 384 + 107 1.053
33.8

F718

34

25.8 + 0.3 36

-75.0

46703 (2.1)

+530,100 B-V-N+405

022

+0.0011 -0.005 Y
+0.0010 -1
-2
+0.0008 -0.006
+0.007

-189	-398	897	-0.027	+0.113	+0.086	-67.3
-424	858	291	-0.141	-0.244	-0.485	-21.3
885	324	333	+0.244	-0.092	+0.200	-25.0

6.5

24000

-45

-33

-21

217096 6.12 + 0.58 + 0.10 638

9.04 384 107 1053

~~322~~ 372 186 526 2634 217056

$$6.35 \pm 0.48 \text{ (1.60)} - 0.053 \pm 8.7 \quad -0.98 \pm 8.0$$

$$\quad \quad \quad -0.053 \quad \quad \quad -0.95$$

$$HO 47230 \quad 6 \quad 34.2 \quad -36 \quad 0.3 \quad +27.6 \pm 0.5 C_{14}$$

(HR 243)

$$6.8) 0.4 \quad GO 2$$

GC 8611

$$n = 0.5?$$

$$-0.64 \quad -0.98 \text{ GC}$$

p=30 ±

$$8.620 \quad 1899.2 \quad -36 \quad 2 \quad 42.46 \quad 1896.2$$

$$\begin{array}{r} 269 \\ \hline 8.889 \end{array}$$

$$\begin{array}{r} +5.27 \\ \hline 37.19 \end{array}$$

$$\begin{array}{r} 15.905 \\ 52.782 \\ \hline 8.693 \\ 5 \end{array}$$

$$\begin{array}{r} 1311 \\ \hline 656 \\ \hline 1233 \end{array}$$

(44.6)

$$\begin{array}{r} 27.24 \\ -12.48 \\ \hline 39.72 \\ -9.5 \end{array}$$

$$1930.15$$

$$\begin{array}{r} 86.53 \\ \hline 43.3 \\ \hline (47.1) \end{array}$$

$$\begin{array}{r} 698 \\ 20 \\ \hline 718 \end{array}$$

$$\begin{array}{r} 40.67 \\ +31 \\ \hline 40.86 \end{array}$$

$$\begin{array}{r} 332 \\ \hline 41.66 \\ -4.47 \end{array}$$

$$\begin{array}{r} 8.577 \\ 10 \\ \hline 593 \end{array}$$

$$\begin{array}{r} 42.98 \\ +2 \\ \hline 42.96 \end{array}$$

$$1956.38$$

1 0 -558805 -064-058 +27.6058 -16.2 -374
064-058 0 0 303 -275 +22.3 0 +22.3 02

+15.2 +8.6 -34.9

-7.4 -22.7 -30.7

5.80 - 022609409 2.6277

2418 31583

6 34.1 - 5 10

BSP

5.35 - 09 - 380 + 05

e

~~150 057~~ ~~260~~ 2.670

Point B Map
94
707
131
584

5.45
1.8
6.95

294-423 $m_v = -1.85$

Plumber

-05033 - 0254 ¹⁴²⁰ SMITH

1009
1009
1009

$m_v = -0.35$

8.25

5149 - 7359 / 8037
6554 - 6718 / 603 - 0229

4116 - 4519 - 4019
8876 - 9440 - 9188
02297
6047
220500079

2515
5100
5000
5152

20



2418.000*

6.000*

34.100*

-5.000*

-10.000*

-0.002*

-0.024*

6.950*

245.471

27.000

-0.062

0.006 99

6.629

5.45

123

47127

8632

4278

6 34.8

6.80 + 70 (1.82)

46.081 1409.9

269
—
350

46.088
30

—
218
—
-132

-6067 = 9.0 -273 = 7.5
-6044 -281

+12

14

7.6

d 65 + 52.98

+12 13

11.60

—
53.77

44.5-1
9

—
44.60

1940.09

6.83437 246269 (1)

27



CS

6.600
12.200
-75.000
-277.000
2.000
25
52.900

-0.203
0.293
0.934
-313.838
41.551

-0.416
0.838
-0.353
-955.732
-42.667

0.886
0.460
0.048
-912.549
-20.380

27

51 Pm

47070 6 35.2 +39 26 5.7 6.125 +32.88

4284

8648

-0015-57 -111 N30

-0019 E1.5 -114 E1.4

(2419)

22 22

-00168 -1059 W 50

-00163 -1051 ~~W 50~~

SD 20/10/19

-4910
-021 -104

X0545

8448-0954 1055
8386-0954 -0110
-2.6

0202

+382

348

28

V Corp 6 Bk. 20 43 09 +25.20

14R2451 3.17 -0.10 B7II^w -004-009 GC

47670 0006-007 N30

4307 -007 -002 F

8675 -005 -006

14 -0006 -007 N30

-0001 51.9

Over

Handwritten notes on a separate piece of paper, including a list of numbers and the word "Over" written twice.

R.A. : 6.600
 DEC. : 39.450
 I. R.A. : 0.000
 I. DEC. : 0.000
 DISTANCE : 0.000
 MODULUS : 0.000
 P. VEL. : 10
 0.000
 q1 (U) : -0.203
 q2 (U) : -0.168
 q3 (U) :
 NP :

-000451.9
 -0009
 -0004
 -000971.8

13.820 1504.0 -43 9 4.229 1855.9

$$\begin{array}{r} 015 \\ \hline 838 \end{array}$$

$$\begin{array}{r} +45 \\ \hline 384 \end{array}$$

13.815
 4.43 1538.52

$$\begin{array}{r} 15 \\ \hline 807 \end{array}$$

$$\begin{array}{r} +33 \\ \hline 410 \end{array}$$

1596

42.5

$$\begin{array}{r} 402 \\ \hline 0.18 \end{array}$$

47.18

$$\begin{array}{r} 47.1 \\ \hline 47.2 \end{array}$$

13.789

$$\begin{array}{r} 798 \\ \hline 010 \end{array}$$

03.85
 -12
 1955.20

$$\begin{array}{r} 3.97 \end{array}$$

V558 Mon = W2 06 36.4 709 44

NGC 403

403

516.2: 04

74

589 = 120 10.27 10.270 + 0.744 0.190 2.710 ←

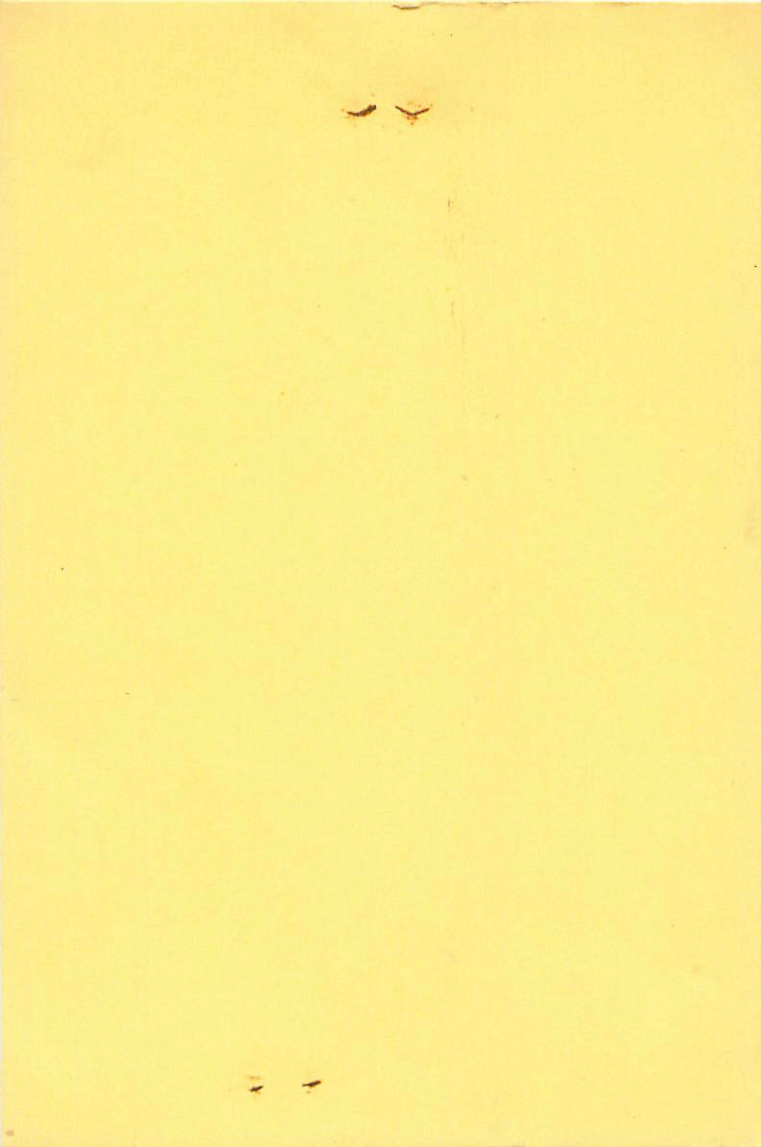
V589 Mon

06 36.7

+09 45

171 509

NOV 28 1944



3665

HR2434 6 36.2 +44 04 6.37 101.17

1037 -006 GC

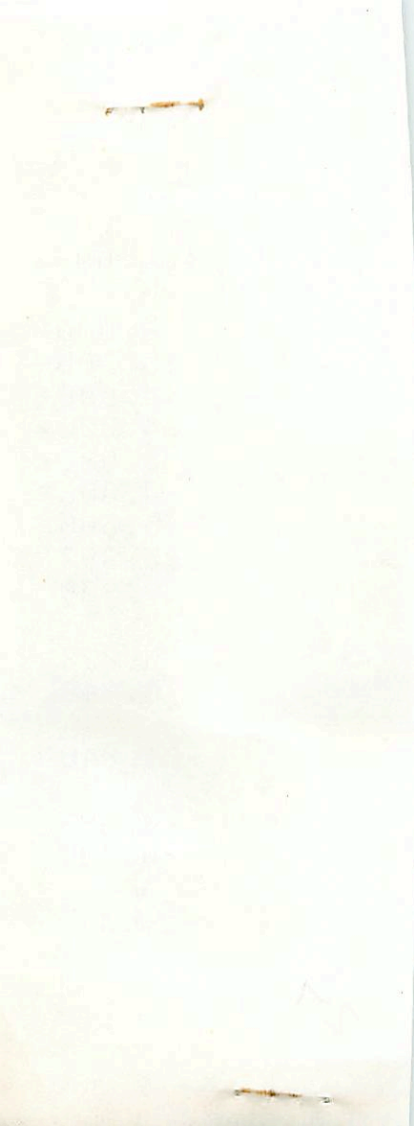
-1⁰ -29.9

1086

111

29

111



~~111~~
2434,000*

.6,000*

36,200*

44,000*

4,000*

0,036*

-0,006*

5,500*

125,893

-29,900

-0,028

0,948

-31,840

-0,096

0,143

-16,412

0,141

0,284

9,230

201

47415

6 36.5 124 39

FJ

HR2439

6.36 + 52

+30.2 Credit

GC8682

FRYER

1840 .176 .308 ② SPC 2.595 ② CT

350

96

237 + 24

240 - 53

-199 089 976

10213

-418 893 -164

13731

886 441 141

12976

-0189 + 0402

-0396 + 4127

+0839 + 2038

+182²³⁴

+00134 +0953 26

+ 37 + 12

- 21 + 9

+0015 +0976

+020

2-307-9 6 370 28 30 DC 824 9 -1519 19

252

5103-50 25-2019 15.85.91 2=15.9

252- 258 249

0359 134 5520

252

252

6.6

282

259- 645- 650

525

6.521

25

R.A. :
DEC. :